

Finding the Least Squares Solution to a System $Ax = b$

$$A = \begin{bmatrix} 2 & 1 \\ 1 & 2 \\ 1 & 1 \end{bmatrix} \quad b = \begin{bmatrix} 2 \\ 0 \\ 3 \end{bmatrix}$$

$$Ax = b$$

$$\begin{bmatrix} 2 & 1 \\ 1 & 2 \\ 1 & 1 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} 2 \\ 0 \\ 3 \end{bmatrix}$$

Find $A^T A$ and $A^T b$

$$A^T = \begin{bmatrix} 2 & 1 & 1 \\ 1 & 2 & 1 \end{bmatrix} \quad A^T A = \begin{bmatrix}$$

Solving Least Squares Problems

BM King



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